

# DRT-240 Series

## 240W Three Phase Industrial DIN Rail Power Supply



### Features

- Three Phase AC 340 ~ 550V wide range input
- High Efficiency 89% and low dissipation
- Protections: Short Circuit / Overload / Over voltage / Over Temperature
- Cooling by Free Air Convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (Industrial Control Equipment) approved
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test
- Fixed Switching Frequency at 70KHz
- 3 years warranty



### Specification

INPUT	<b>Voltage</b>	Three-phase 340~550VAC (Dual phase operation possible) 480~780VAC	
	<b>Frequency</b>	47 ~ 63 Hz	
	<b>AC Current (Typ.)</b>	0.95A/400VAC	0.75A/500VAC at full load
	<b>Inrush Current (Typ.)</b>	Cold start 50A	
	<b>Leakage Current</b>	<3.5mA/530VAC	
	<b>Efficiency</b>	89%	
OUTPUT	<b>MODEL No.</b>	<b>DRT-240-24</b>	<b>DRT-240-48</b>
	<b>Voltage</b>	24V	48V
	<b>Rated Current</b>	10A	5A
	<b>Current Range</b>	0~10A	0~5A
	<b>Rated Power</b>	240W	240W
	<b>Ripple Noise MAX.</b>	80mVp-p	80mVp-p
	<b>Voltage Adjustment Range</b>	24 ~ 28V	48 ~ 53V
	<b>Voltage Tolerance</b>	± 1.0%	± 1.0%
	<b>Line Regulation</b>	± 0.5%	± 0.5%
	<b>Load Regulation</b>	± 1.0%	± 0.5%
PROTECTION	<b>Setup Rise Time</b>	1200ms, 40ms, 20ms/400VAC	800ms, 40ms, 40ms/500VAC at full load
	<b>Over Load</b>	105 ~ 150% rated output power Protection Type: Constant current limiting, recovers automatically after fault condition is removed	
	<b>Over Voltage</b>	30 ~ 36V	59 ~ 66V
	<b>Over Temperature</b>	Protection Type: Shut down o/p voltage, re-power onto recover 100°C±5°C (TSW) detect on heatsink of power switch Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	<b>Working Temperature</b>	-20 ~ +70°C (Refer to "Derating Curve")	
	<b>Working Humidity</b>	20 ~ 90% RH non-condensing	
	<b>Storage Temp., Humidity</b>	-40 ~ +85°C, 10-95%RH	
	<b>Temp. Co-efficient</b>	±0.03% / °C (0~50°C)	
SAFETY & EMC	<b>Vibration</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60 min. each along X, Y, Z axes; Mounting: compliance to IEC60068-2-6	
	<b>Safety Standards</b>	UL508, UL60950-1, TUV EN60950-1 approved	
	<b>Withstand Voltage</b>	I/P-O/P:3KVAC I/P-FG:2.0KVAC O/P-FG:0.5KVAC	
	<b>Isolation Resistance</b>	I/P-OP I/P-FG, O/P-FG: 100M Ohms/500Vdc/25°C/70% RH	
	<b>EMC Emission</b>	Compliance to EN55011 (CISPR11), EN55032 (CISPR32), EN61204-3 Class B	
	<b>EMC Immunity</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A	
OTHERS	<b>M.T.B.F.</b>	114.6K hrs min. MIL-HDBK-217F (25°C)	
	<b>Packaging</b>	1.3Kg, 12pcs/16.6Kg/1.29CUFT	

1. All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature.
2. Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. The power supply is considered as a component which will be installed with final equipment. The final equipment must re-confirmed that it still meets EMC Directives.
5. Dual phase operation: derating of 20% is required

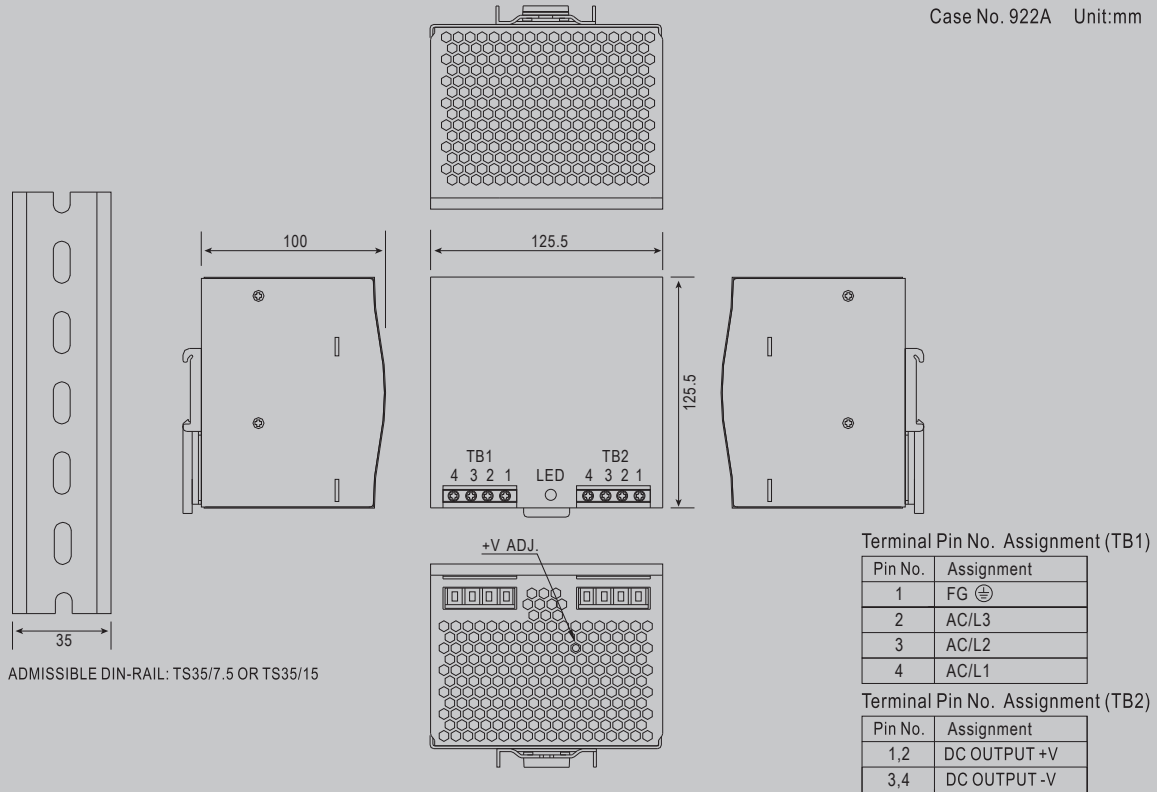
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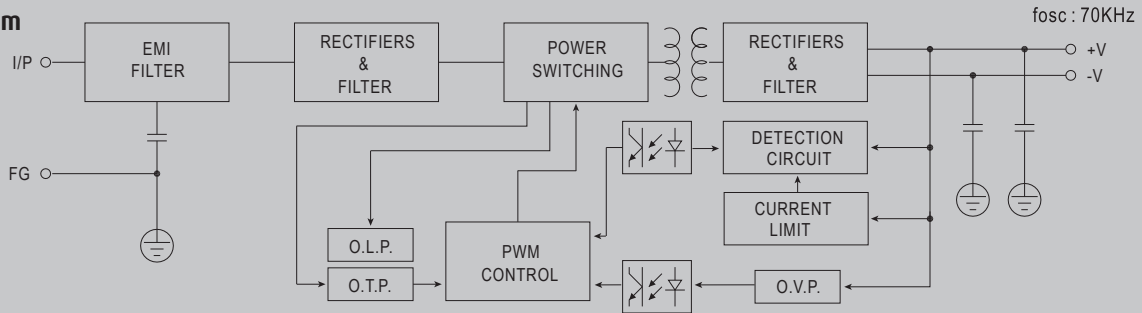


### Mechanical Specification

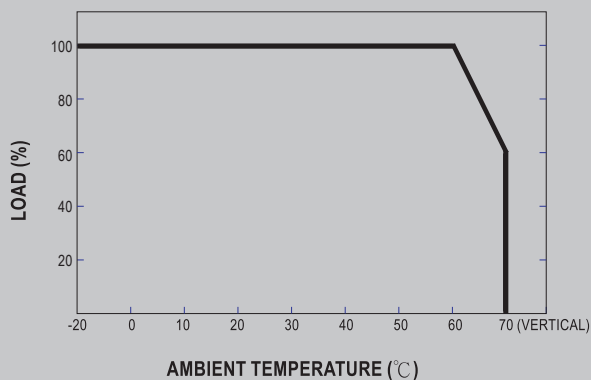
Case No. 922A Unit:mm



### Block Diagram



### Derating Curve



### Static Characteristics

